NASA Glenn Research Center - Scoring Methodology for Environmentally Preferable Products									r blocking p	k by clogging, pores. Deodorants tiperspirants usually of sweat.	Crystal (mineral salt, "rock") deodorants can last much longer than standard deodorants.		
									ds in antiped through the prifirmed absects, such a or an Alzhe question. B (not skin all exposure - un is widely un	that aluminum erspirants might be e skin. Studies have sorption nor human as concentration in eimers connection - But aluminum besorption) is our main unavoidable since used (water , medications, etc.).	absorb into skin, may defat skin For "rock crystal" (alum) deodorants, bauxite mining is an issue. Bauxite is mined for aluminum production anyway, so increases of mining for alum deodorants are minimal - plus additional processing after extraction is minimal.		
											Deodorant		
	= Affirmative P	rocur	eme	nt (i	recycled (content o	r hiohased)		 Pricing is similar on all products 			
I	 = Affirmative Procurement (recycled content or biobased) = Contains moderate amount of "red" chemicals, mod TRI, RCF = Contains higher amount of HAP, certain RCRA, CERCLA, less mod SARA (TRI) chemicals, petroleum product (mining & nonrenewable) 								lam/corross	'			
1									1411/0011000	5170			
<u>Product</u>	Manufacturer	Env'l Issues	OSHA listed	T=Tested by GRC		# of ingredients (nat resources process'g, pkg'g & shipping)	Container packaging (plastic contains no dyes)	Packaging (other than container) - recyclable?	No petroleum-based or hazardous chemical contents	Comments	Vendor links:	Northeast Ohio availability	
Deodorants - stick (6 types available)	Jason Natural Cosmetics			Т	Stick	4 Avg	All recycled content plastic	No other packagi	All "natural"	Most with corn starch (absorbs wetness), Vit E (anti- bacterial/odor), and various plant oils	http://www.jasoncosmetics.com/jasdeodorants.html	Food Co-op, Wild Oats, Nature's Bin, Heinen's	
Deodorants - roll-on (5 types available)	Jason Natural				Roll-on	4 Avg	All #2 recyclabl e plastic	No other packagi	All	Most with corn starch (absorbs wetness), Vit E (antibacterial/odor), and various plant oils (neutralize odor).	http://www.jasoncosmetics.com/jasdeodorants.html	Wild Oats	

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Thai Crystal Rock - Plain solid rock	Deodorant Stones of America (PETA member)		T	Solid rock	1	Shrink- wrapped in cellopha ne - NO PLASTIC	No other packagi	Only one mineral ingred.	Made from naturally- occurring alum (salt- form - not metallic aluminum) - mineral crystals. (See bauxite mining, above.) The salts form a layer of protection from bacteria that cause odor. This rock form lasts 8-9 months or more. Made from naturally-	http://www.deodorantstones.org/item7132.ctlg	Food Co-op
Thai Crystal Rock - Push- up	Deodorant Stones of America (PETA member)			Stick	1	Unknown plastic type. Informati on unavaila ble	No other packagi	Only one mineral	occurring alum (salt- form - not metallic aluminum) - mineral crystals. (See bauxite mining, above.) The salts form a layer of protection from bacteria that cause odor. This rock	http://www.deodorantstones.org/productCat17039.ctlg	Food Co-op, Wild Oats
Deodorant - plain solid rock	French Transit Ltd			Solid rock	1	Light cardboar d box made of recycled paper.	No other packagi ng	Only one	Made from naturally- occurring alum (salt- form - not metallic aluminum) - mineral crystals - and water. (See bauxite mining, above.) The salts form a layer of protection from bacteria that cause odor. This rock form lasts a year or more.	http://www.thecrystal.com/	Nature's Bin
Deodorant -	French Transit Ltd			Stick	1		No other	Only one mineral	occurring alum (salt- form - not metallic aluminum) - mineral crystals - and water.		Nature's Bin, Wild Oats

Herbal deodorant - spray	Doctor Burt's		Spray	4	Aluminu m	No other packagi	"99.92%	Sage, lemon, and lavender oils (neutralize odors); and SD Alcohol 40- B (from yellow corn) (disinfectant).	http://www.affordable-burts-bees.com/doctor-burts- herbal-deodorant.html	Wild Oats
Deodorant - roll-on	Avalon Organics		Roll-on	8		No other	J	Most with: Calendula and chamomile (antibacterial), and green tea extracts (anti-inflammatory); polysorbate 20 (fruit- based surfactant); aloe (anti- inflammatory), hydroxyethylcellulos e (thickener from chemically modified plant cellulose),		Food Co-op, Wild Oats
Deodorant -	French Transit Ltd		Roll-on	1	All #2 recyclabl e plastic	No other packagi	Only one mineral	occurring alum (salt- form - not metallic aluminum) - mineral crystals - and water. (See bauxite mining, above.) The salts form a layer of protection		Nature's Bin, Wild Oats